








# More Precision

capa**NCDT** // Capacitive sensors for displacement, distance & gap



# Off-line measuring system for thin films capaNCDT TFG6220

-  Thickness measurement of very thin, electrically conductive film <math>< 1\text{ mm}</math>
-  Automatic smoothing of the film by vacuum
-  Turnkey measuring system with robust design
-  Immediately ready for operation - reliable measurements at the touch of a button
-  Simple operation/visualization via the sensorTOOL

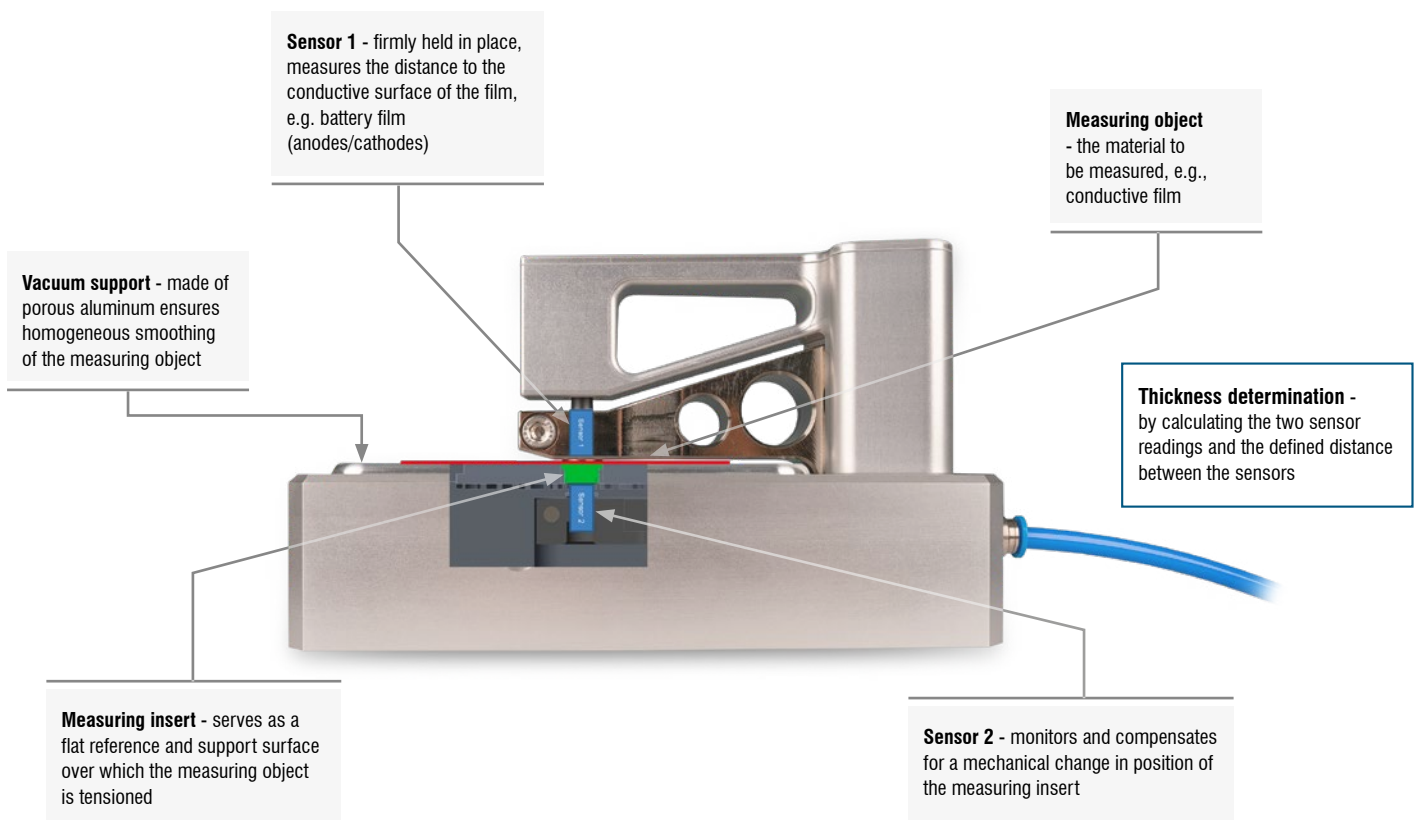


The TFG6220 measures the thickness of electrically conductive film, e.g. battery film, with maximum precision. The TFG6220 is used for qualification, offline testing of samples, and quality control. A vacuum device sucks in the object to be measured, smooths it and thus ensures wrinkle-free support. This allows the measurement to be performed with maximum precision without compressing the target object or applying point loads to it.

The TFG6220 consists of a measuring bracket including capacitive sensors and an external controller unit. Pre-assembled and ready for use, this capacitive measuring system can be started quickly.

Model	TFG6220
Resolution (100 Hz)	10 nm
Max. measuring object/film thickness	<math>< 1\text{ mm}</math>
Measuring rate	100 Hz with median filter width 7
System accuracy	up to $0.2\text{ }\mu\text{m}$
Measuring object	Electrically conductive material (> 106 S/m)
Recommended target size (flat)	110 mm x 110 mm

The sensorTOOL software offers a user-friendly interface for operating the capaNCDT TFG. It enables the user to perform the measurements and to display and output measured data. The software is available free of charge at [www.micro-epsilon.com/download](http://www.micro-epsilon.com/download).



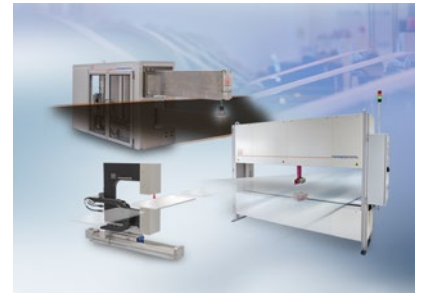
## Sensors and Systems from Micro-Epsilon



Sensors and systems for displacement, distance and position



Sensors and measurement devices for non-contact temperature measurement



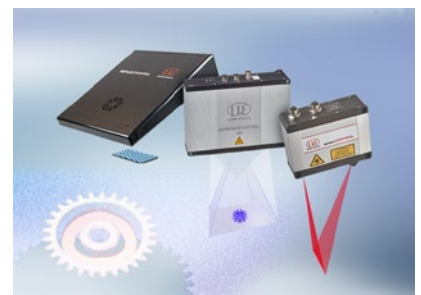
Measuring and inspection systems for metal strips, plastics and rubber



Optical micrometers and fiber optics, measuring and test amplifiers



Color recognition sensors, LED analyzers and inline color spectrometers



3D measurement technology for dimensional testing and surface inspection